

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

21 1. (Currently Amended) Apparatus for ~~producing a pulse of light for use in~~ pulsed light cosmetic or therapeutic photo-treatment of the human or animal body, comprising a housing, a gas filled arc lamp light source within said housing operable to produce said ~~pulse of light~~, a pulsed light output, a power supply connected to said arc lamp light source for operation thereof to produce a light output duration of from 10 to 70 msec, a light output aperture defined by said housing, and a filter system for filtering undesired light output frequencies wavelengths from said pulse to produce a filtered light pulse for application to said body, at least part of said filter system being interposed between said light source and said aperture, wherein said filter ~~comprises~~ system consists of (a) a filter for filtering out UV and near UV wavelengths shorter than 510 nm and for passing longer wavelengths and (b) water, said water being located in the apparatus for filtering out undesired skin heating wavelengths of light which would otherwise pass to said output aperture, wherein and said filtered light pulse has an energy of at least 250 J/cm²/sec.

2. (Original) Apparatus as claimed in Claim 1, comprising means for defining a flow path for said water, which means is optically transparent at least in a region in which said water acts as said filter, and means for producing a flow of said water through said flow path.

3. (Original) Apparatus as claimed in Claim 2, wherein said light source forms part of the means defining said flow path for water, whereby said water acts both to filter said light pulse and to cool said light source.

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) Apparatus as claimed in claim 2, wherein said flow path forms a closed circuit around which said water circulates.

9. (Cancelled)

10. (Previously Presented) Apparatus as claimed in Claim 1, further comprising a light guide for transmitting light output from said light source to a treatment site, said light guide having a proximal end receiving light from said aperture and having a distal end for contacting the skin of a patient for said photo-treatment, said light guide distal end being shaped in a convex curve whereby pressing the light guide gently against the skin of the patient reduces the amount of blood in the skin below the light guide.

11. (Original) Apparatus as claimed in Claim 10, wherein said light guide is shaped as a parallelepipedic prism with a bull-nosed projection on said distal end.

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12. (Previously Presented) Apparatus as claimed in Claim 1, further comprising a light guide for transmitting light output from said light source to a treatment site, said light guide having a proximal end receiving light from said aperture and having a distal end for contacting the skin of a patient for said photo-treatment, said light guide distal end being shaped in a concave manner whereby to relieve pressure applied to the skin by the light guide in regions where blood is a target of said light output.

13. (Previously Presented) Apparatus as claimed in Claim 1, further comprising a power supply connected to the light source for providing power input to the light source, wherein said power supply is operable to provide a power output pulse or pulse train to drive said light source to produce said light output pulse or pulse train, during which light output pulse or pulse train for at least 80% of the light output period (i.e. the duration of a single pulse or the aggregate of the duration of the pulses within a pulse train excluding intervals between pulses) the light power output is from 75 to 125% of the time-weighted average light power output during the light output period.

14. (Original) Apparatus as claimed in Claim 13, wherein for at least 90% of the light output period the light power output is from 75 to 125% of the time-weighted average light power output during the light output period.

15. (Original) Apparatus as claimed in Claim 13, wherein means is provided for adjusting said time-weighted average light power output.

16. (Cancelled)

17. (Cancelled)

18. (Previously Presented) Apparatus as claimed in Claim 1, further comprising a filter mounting for receiving a second filter having high filtration characteristics suitable to pass only selected wavelengths of light so as to dispose said second filter in a light path from said light source which light path also includes said filter comprising water, sensor means for detecting the presence and nature of a said second filter in said filter mounting, and interlock means for preventing operation of said light source to carry out photo-treatment except when a said second filter appropriate to an intended photo-treatment is present in said mounting and/or for providing an alarm signal if a said appropriate second filter is not present in said mounting.

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Original) Apparatus as claimed in claim 1, wherein the light source comprises a gas-filled arc lamp.

23. (Original) Apparatus as claimed in Claim 22, wherein said gas-filled arc lamp is a xenon or krypton lamp

24. (Previously Presented) Apparatus as claimed in claim 13, wherein the power supply is coupled to a capacitor, a charging circuit adapted for charging the capacitor to a preselected voltage, a resistor in series between said capacitor and said light source and a discharge switch operable to change from a non-conductive state to a conductive state to cause said capacitor to discharge said light source and back to said non-conductive state again.

25. (Original) Apparatus according to Claim 24, wherein the light source is an arc lamp and the power supply comprises a simmer generator adapted for feeding the arc lamp with power at a level which is sufficient to keep the arc in the conductive state.

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)
